


## An optical wavelength multiplexing and demultiplexing device and an optical transmission system using the same

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### Abstract

An optical wavelength multiplexing and demultiplexing device may transmit an optical signal equivalent to a lost optical signal on a normal section in WDM network. The optical wavelength multiplexing and demultiplexing device includes an optical add-drop multiplexing circuit having a plurality of pairs of input and output ports and a plurality of path switches, each connected to a corresponding pair of the plurality of pairs of input and output ports for breaking off an optical signal inputted to an input port of the corresponding pair, and switching a path of an optical signal output from an output port of the corresponding pair to the input port of the corresponding pair. 

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